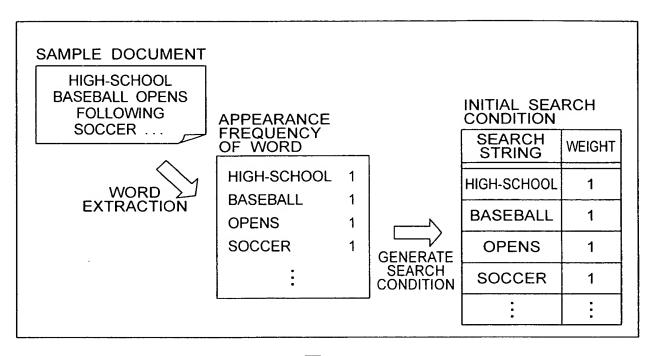


FIG. 2





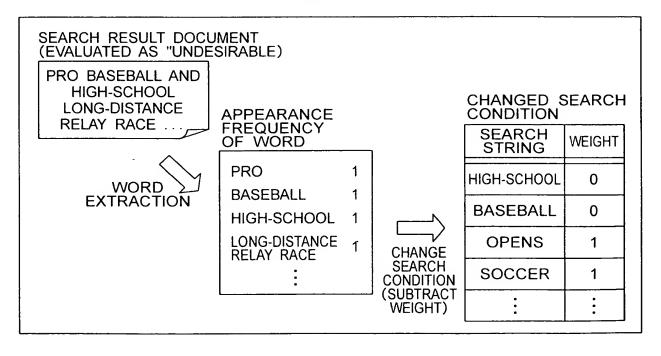


FIG. 3

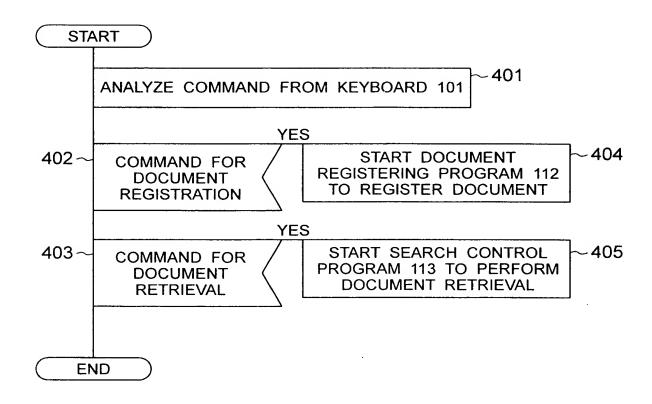


FIG. 4

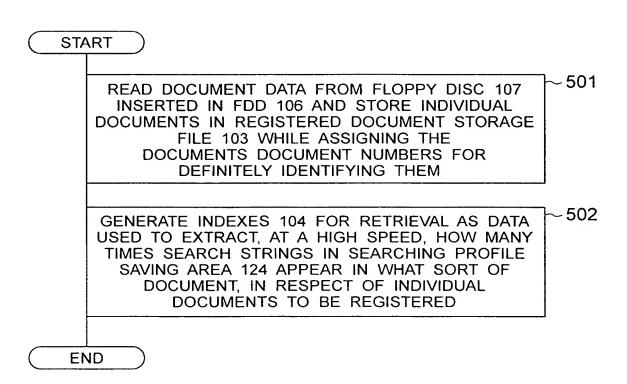


FIG. 5

| STA | ART | 110. | 9 | | |
|--------------|--|--|--|--|--|
| | START SEARCHING PROFILE-GENERATING PROGRAM 114 TO GENERATE SEARCHING PROFILE ON THE BASIS OF SEED DOCUMENT | | | | |
| | START SIMILAR DOCUMENT SEARCHING PROGRAM 115 TO PERFORM DOCUMENT RETRIEVAL ON THE BASIS OF SEARCHING PROFILE GENERATED IN STEP 601 AND DISPLAY SEARCH RESULT | | | | |
| | START SEARCH HISTORY SAVING PROGRAM 118 TO SAVE SEARCHING PROFILE AND SEARCH RESULT | | | | |
| 602 - | REPEAT UNTIL | ANALYZE COMMAND INPUTTED FROM KEYBOARD 101 | | | |
| 602 <i>~</i> | STEP 618 IS EXECUTED | COMMAND TO DISPLAY CONTENT OF SEARCH RESULT DOCUMENT | START SEARCH RESULT ~611 DOCUMENT CONTENT DISPLAYING PROGRAM 119 | | |
| | 605 [/] | YE | | | |
| | 606~ | COMMAND TO INPUT EVALUATION | START SEARCHING PROFILE- ~651 UPDATING PROGRAM 117 | | |
| | | FOR SEARCH RESULT DOCUMENT | START SIMILAR DOCUMENT ~652 SEARCHING PROGRAM 115 | | |
| | | | START SEARCH HISTORY ~653 SAVING PROGRAM 118 | | |
| | YES | | | | |
| | 608~ | COMMAND TO DISPLAY SEARCH HISTORY | START SEARCH HISTORY ~614 DISPLAYING PROGRAM 121 | | |
| | 607 <i>~</i> | COMMAND TO DISPLAY SEARCH RESULT HISTORY | START SEARCH RESULT HISTORY ~613 DISPLAYING PROGRAM 120 | | |
| | 609~ | COMMAND TO RESTORE SEARCHING | START SEARCHING PROFILE- RESTORING PROGRAM 122 661 | | |
| | | PROFILE | START SEARCH HISTORY ~663 SAVING PROGRAM 118 | | |
| | | YE | 9 | | |
| | 610~ | COMMAND TO ERASE USER | START USER OPERATION ~671 ERASING PROGRAM 123 | | |
| | | EVALUATION | START SIMILAR DOCUMENT ~672 SEARCHING PROGRAM 115 | | |
| | | | START SEARCH HISTORY ~673 SAVING PROGRAM 118 | | |
| | YES | | | | |
| | 617~ | COMMAND TO END SEARCH SESSION | START SEARCH SESSION ~618 ENDING PROGRAM 130 | | |
| EI | ND | | | | |

FIG. 6

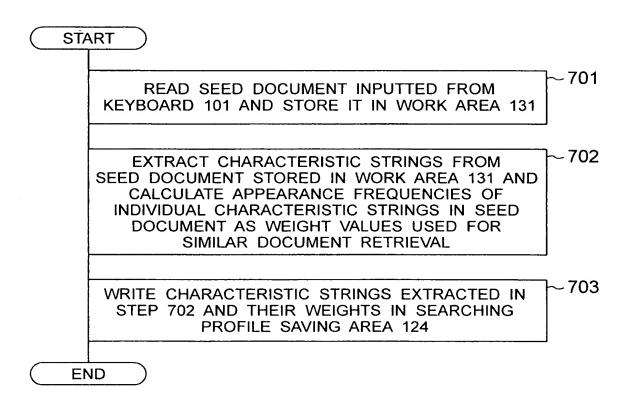


FIG. 7

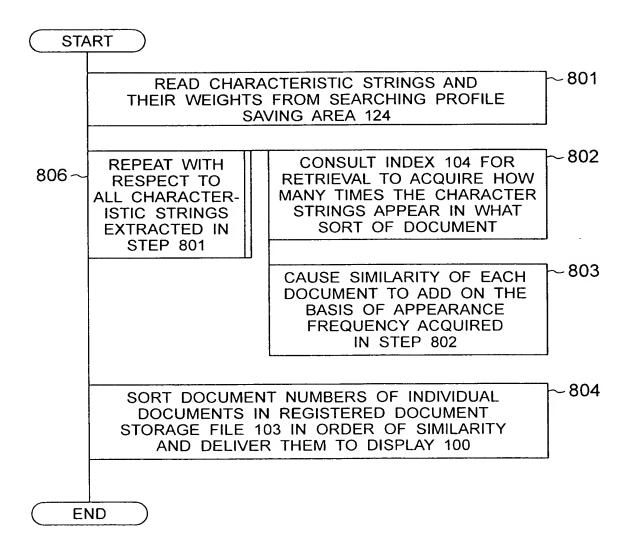


FIG. 8

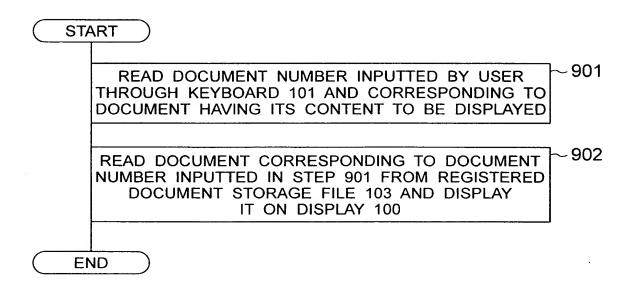


FIG. 9

| | 1 13. 5 | | | | | | |
|-------|--|---|--|--|--|--|--|
| START | | | | | | | |
| | READ, AS INPUT, DOCUMENT NUMBER OF ~ 1501 DOCUMENT FOR WHICH USER INPUTS EVALUATION AND CONTENT OF USER'S EVALUATION FOR THE DOCUMENT | | | | | | |
| | OCUMENT FOR WHICH USER INPUTS EVALUATION AND CONTENT OF USER'S EVALUATION FOR THE DOCUMENT EAD DOCUMENT CORRESPONDING TO DOCUMENT NUMBER READ IN STEP 1501 FROM REGISTERED DOCUMENT STORAGE FILE 103, EXTRACT CHARACTERISTIC STRINGS FROM THE DOCUMENT ND CALCULATE THEIR APPEARANCE FREQUENCIES IN THE DOCUMENT STORE CHARACTERISTIC STRINGS EXTRACTED IN TEP 1502 AND THEIR APPEARANCE FREQUENCIES IN THE DOCUMENT IN WORK AREA 131 YES SER'S EVALUATION EAD IN STEP 501 EVALUATES HE DOCUMENT OCUMENT 1502 ADD APPEARANCE FREQUENCIES OF CHARACTERISTIC STRINGS IN WORK AREA 131 TO WEIGHTS OF CORRESPONDING STRINGS | | | | | | |
| | STORE CHARACTERISTIC STRINGS EXTRACTED IN ~150 STEP 1502 AND THEIR APPEARANCE FREQUENCIES | | | | | | |
| | YE | VES | | | | | |
| 1503~ | | ADD APPEARANCE FREQUENCIES ~ 1505 OF CHARACTERISTIC STRINGS IN WORK AREA 131 TO WEIGHTS | | | | | |
| | YES | | | | | | |
| 1504~ | USER'S EVALUATION READ IN STEP 1501 EVALUATES THE DOCUMENT AS "UNDESIRABLE" | SUBTRACT APPEARANCE FREQUENCIES OF CHARACTERISTIC STRINGS IN WORK AREA 131 FROM WEIGHTS OF CORRESPONDING STRINGS IN SEARCHING PROFILE SAVING AREA 124 | | | | | |
| | | | | | | | |
| | PREPARE USER OPERATION INFORMATION ON THE BASIS OF CONTENT READ IN STEP 1501 AND RETURN IT AS OUTPUT | | | | | | |
| | | | | | | | |
| END | | | | | | | |

FIG. 10

START - 1601 ACQUIRE USER OPERATION INFORMATION AS INPUT ~ 1607 PREPARE USER OPERATION IDENTIFIER FOR DEFINITELY IDENTIFYING USER OPERATION INFORMATION ACQUIRED IN STEP 1601 ~ 1603 SAVE CONTENT OF SEARCHING PROFILE SAVING AREA 124 IN A FILE IN SEARCHING PROFILE HISTORY SAVING FILE GROUP 128 ~ 1606 SAVE SEARCH RESULT LIST DISPLAYED ON DISPLAY 100 IN A FILE IN SEARCH RESULT HISTORY FILE GROUP 128 ~ 1604 SAVE ALL OF USER OPERATION INFORMATION ACQUIRED IN STEP 1601, USER OPERATION IDENTIFIER PREPARED IN STEP 1607, FILE SAVING SEARCHING PROFILE IN STEP 1603 AND FILE SAVING SEARCH RESULT LIST IN STEP 1606 IN SEARCH HISTORY TABLE 126 WHILE MAKING THE CORRESPONDENCE BETWEEN THEM **END**

FIG. 11

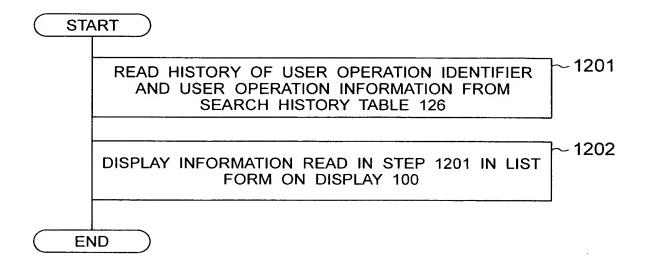


FIG. 12

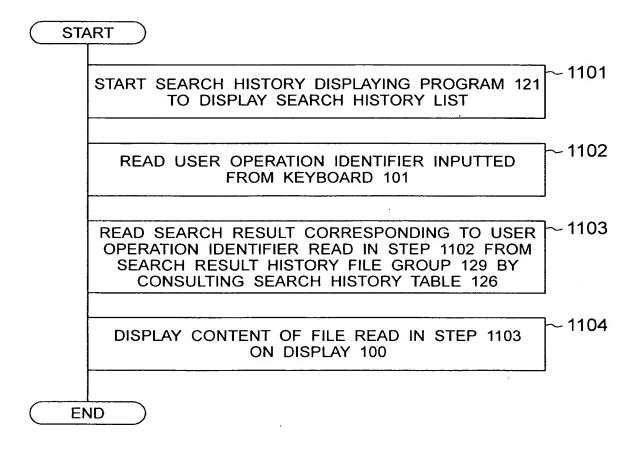


FIG. 13

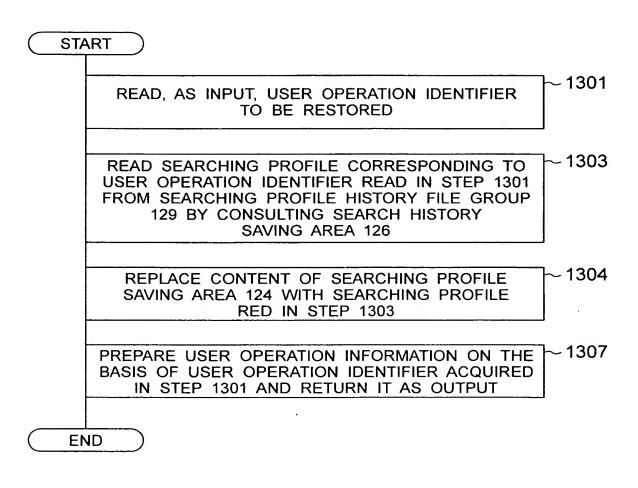


FIG. 14

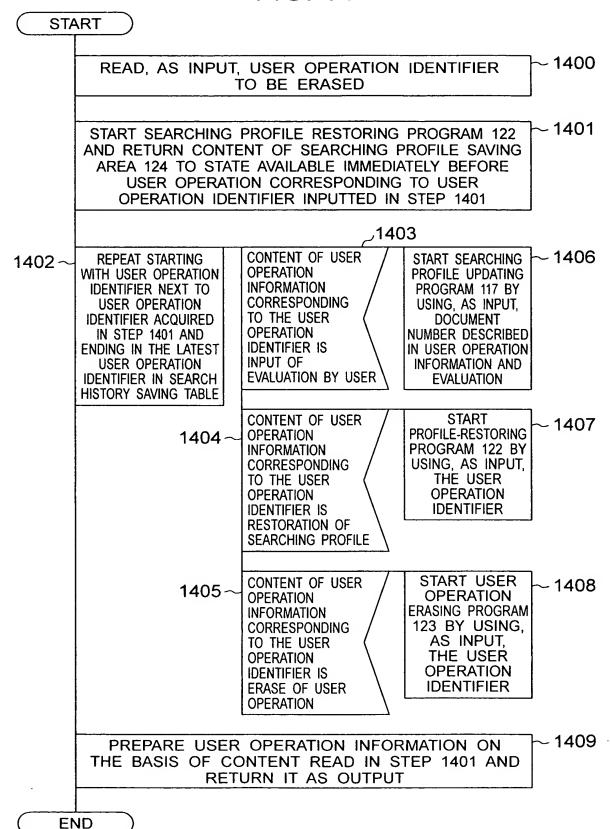


FIG. 15

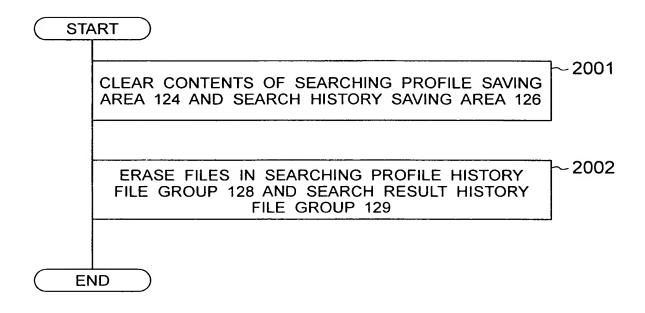
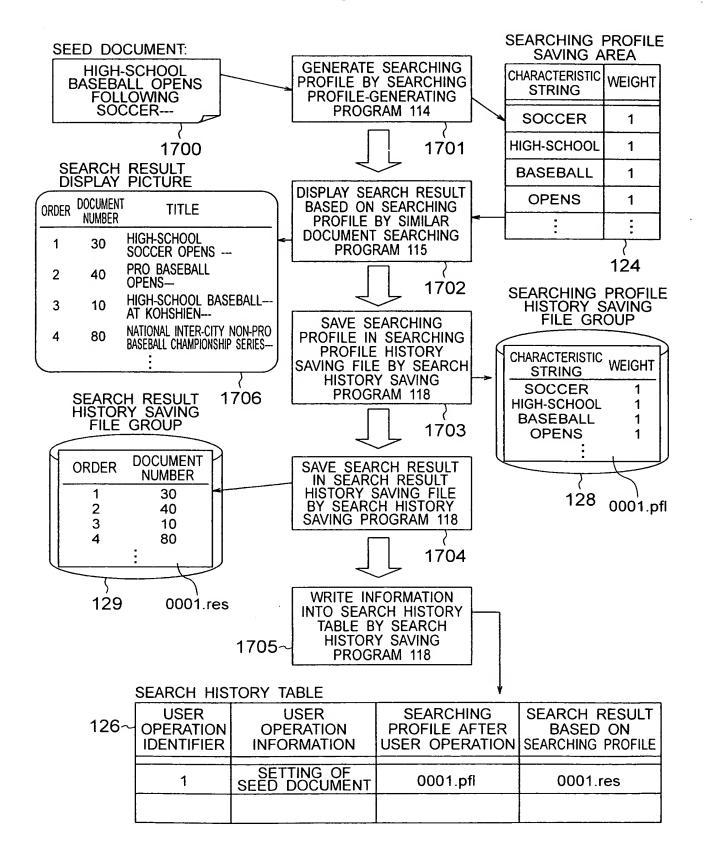


FIG. 16





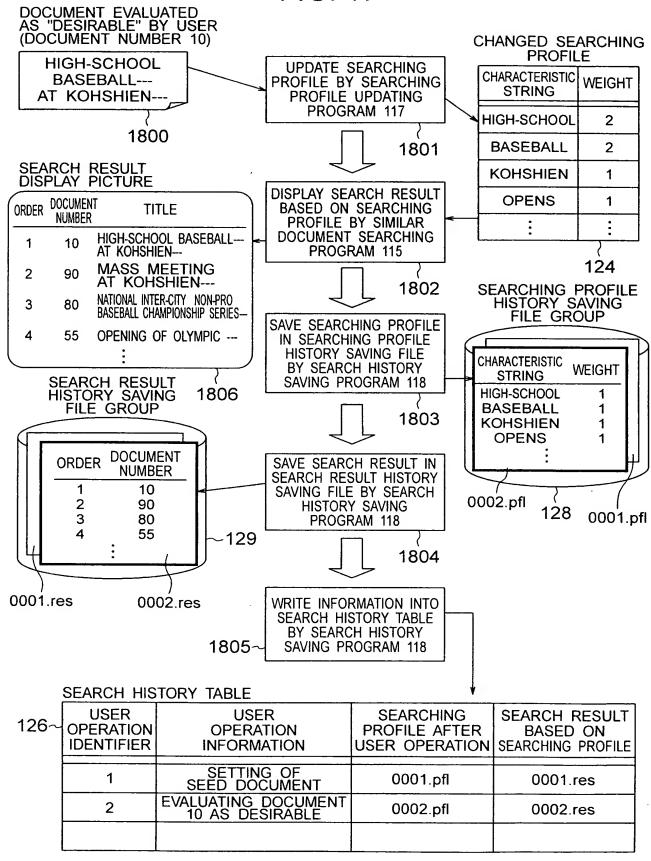


FIG. 18

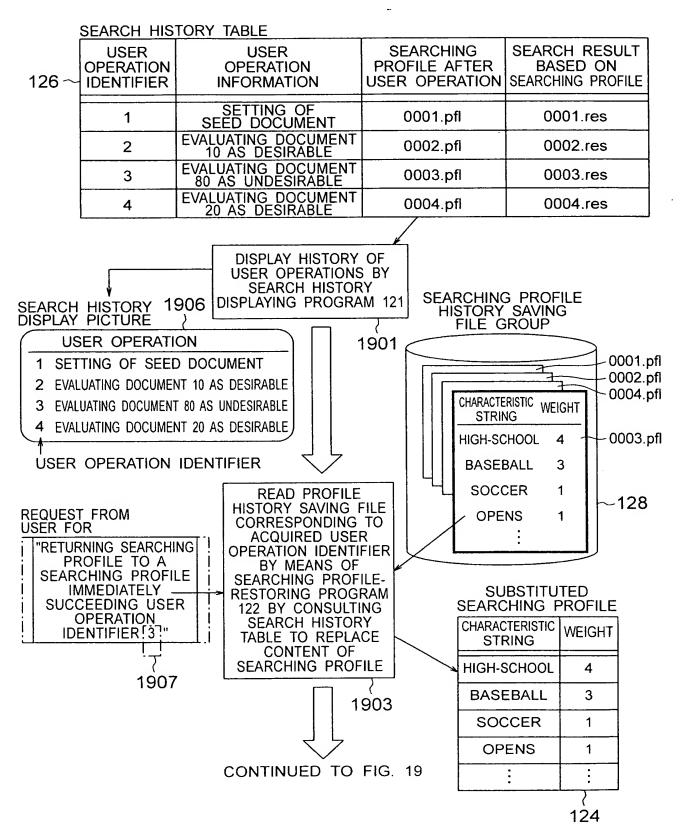
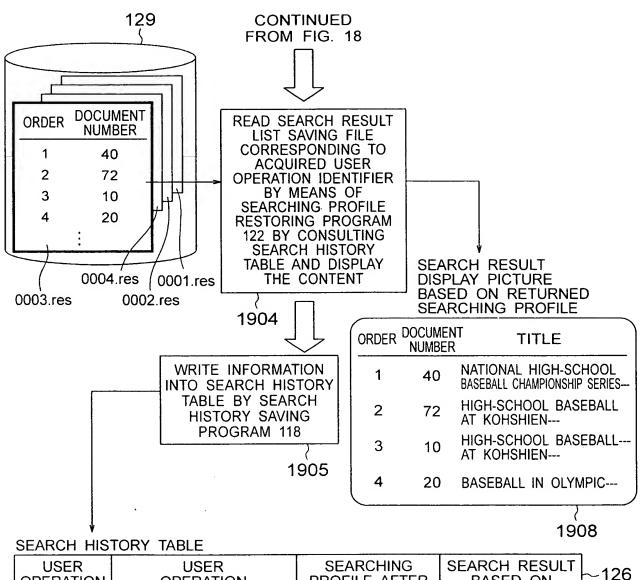


FIG. 19



| USER OPERATION IDENTIFIER | USER OPERATION INFORMATION | SEARCHING PROFILE AFTER USER OPERATION | SEARCH RESULT BASED ON SEARCHING PROFILE | | | | | | |
|---------------------------------|--|--|--|--|--|--|--|--|--|
| 1 | SETTING OF SEED DOCUMENT | 0001.pfl | 0001.res | | | | | | |
| 2 | EVALUATING DOCUMENT 10 AS DESIRABLE | 0002.pfl | 0002.res | | | | | | |
| 3 | EVALUATING DOCUMENT 80 AS UNDESIRABLE | 0003.pfl | 0003.res | | | | | | |
| 4 | EVALUATING DOCUMENT 20 AS DESIRABLE | 0004.pfl | 0004.res | | | | | | |
| 5 | RESTORING USER OPERATION 3 | 0003.pfl | 0003.res | | | | | | |

FIG. 20

